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CHARACTERISTICS OF COLOR AERIAL FILMS

TYPE	RESOLVING 100:1	POWER 1.6:1	CONTRAST	COMMENTS
DUPLICATING FILMS COLOR				
50-360 REVERSAL	125	63	1.5	AERIAL DUP- LICATING
7271 INTERNEGATIVE	300	150	1.0	MOTION PICTURE PROF.
7380 POSITIVE PRINT	562	282	3.0	MOTION PICTURE PROF.
6100 INTERNEGATIVE	45	28	.5	GRAPHIC ARTS
6100 POSITIVE PRINT	45	28	3.0	GRAPHIC ARTS

COLOR

IDENT

DATE

REV.

12-69

GRAPHIC
SERVICES

3

CHARACTERISTICS OF AERIAL FILMS

TYPE	RESOLVING 100:1	POWER 1.6:1	CONTRAST	COMMENTS
<u>DUPLICATING FILMS BLACK-AND-WHITE</u>				
(3404) B.&W. NEGATIVE ACQUISITION	670	220	DUAL	PANCHROMATIC EXTENDED RED SENSITIVITY
2430 STANDARD NEGATIVE DUPE	335	141	1.3	BLUE SENSITIVITY
5468 DIRECT REVERSAL DUPE	560	200	1.3	ORTHO CHROMATIC CHROMATIC SENSITIVITY
SO-345 PANCHROMATIC NEGATIVE DUPE	212	76	1.0	PANCHROMATIC SENSITIVITY

COLOR

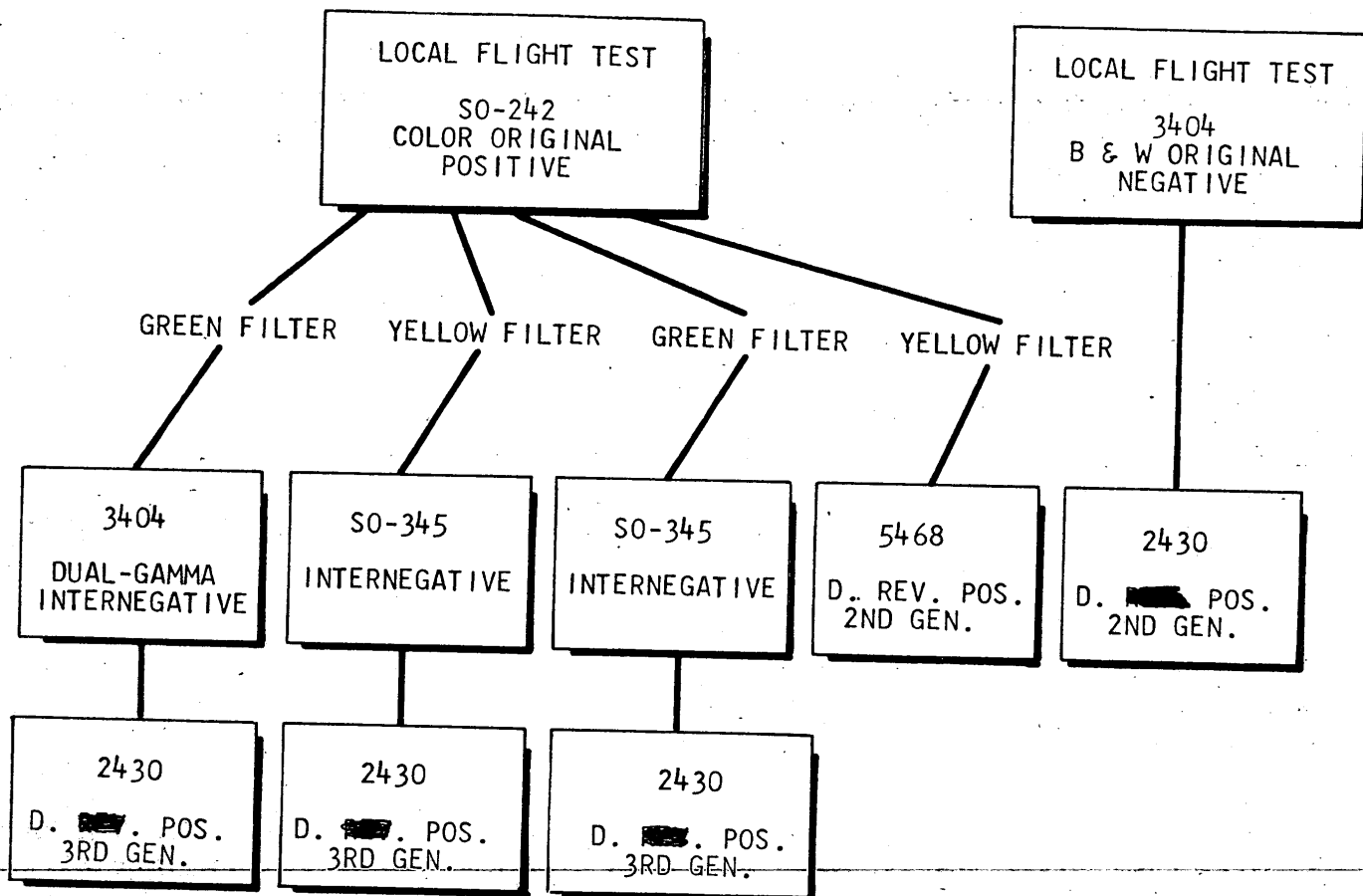
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DATE

REV

12-69

GRAPHIC
SERVICES



COLOR

IDENT

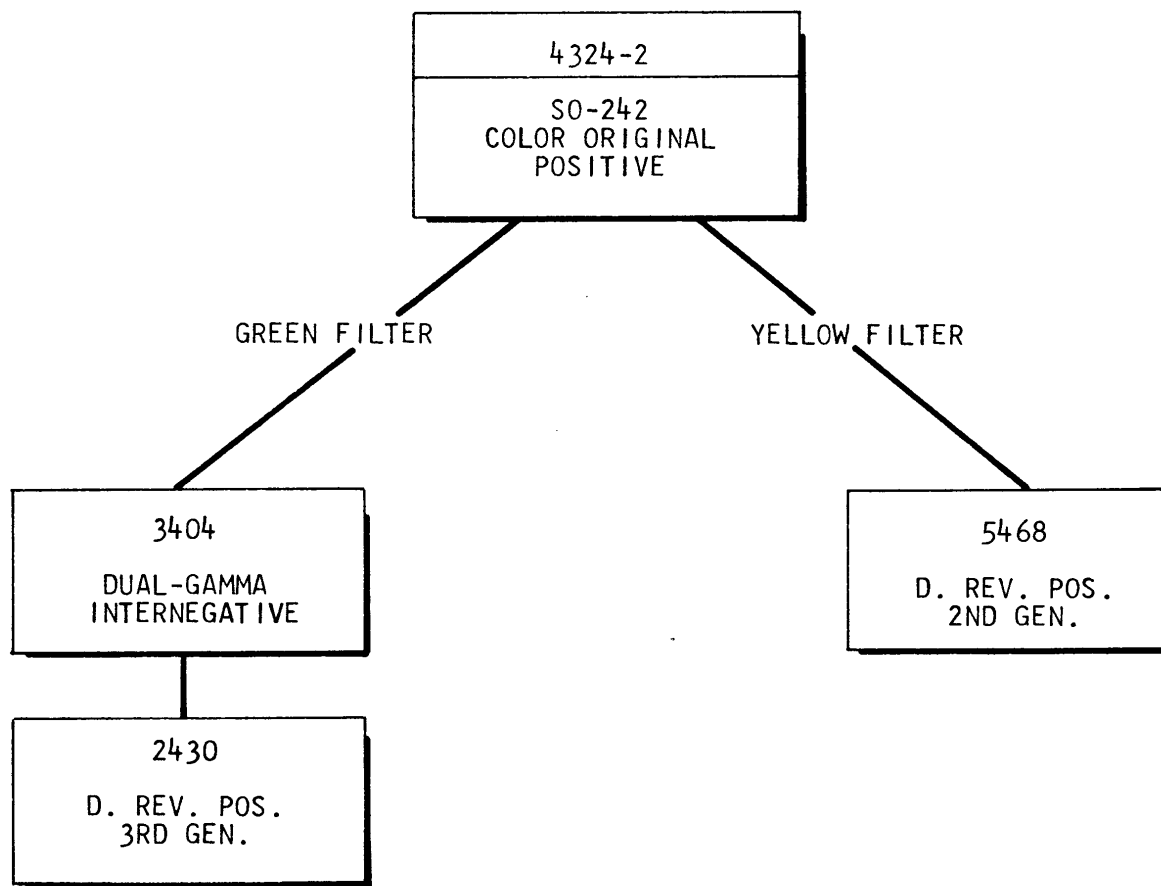
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12-69

GRAPHIC SERVICES

B



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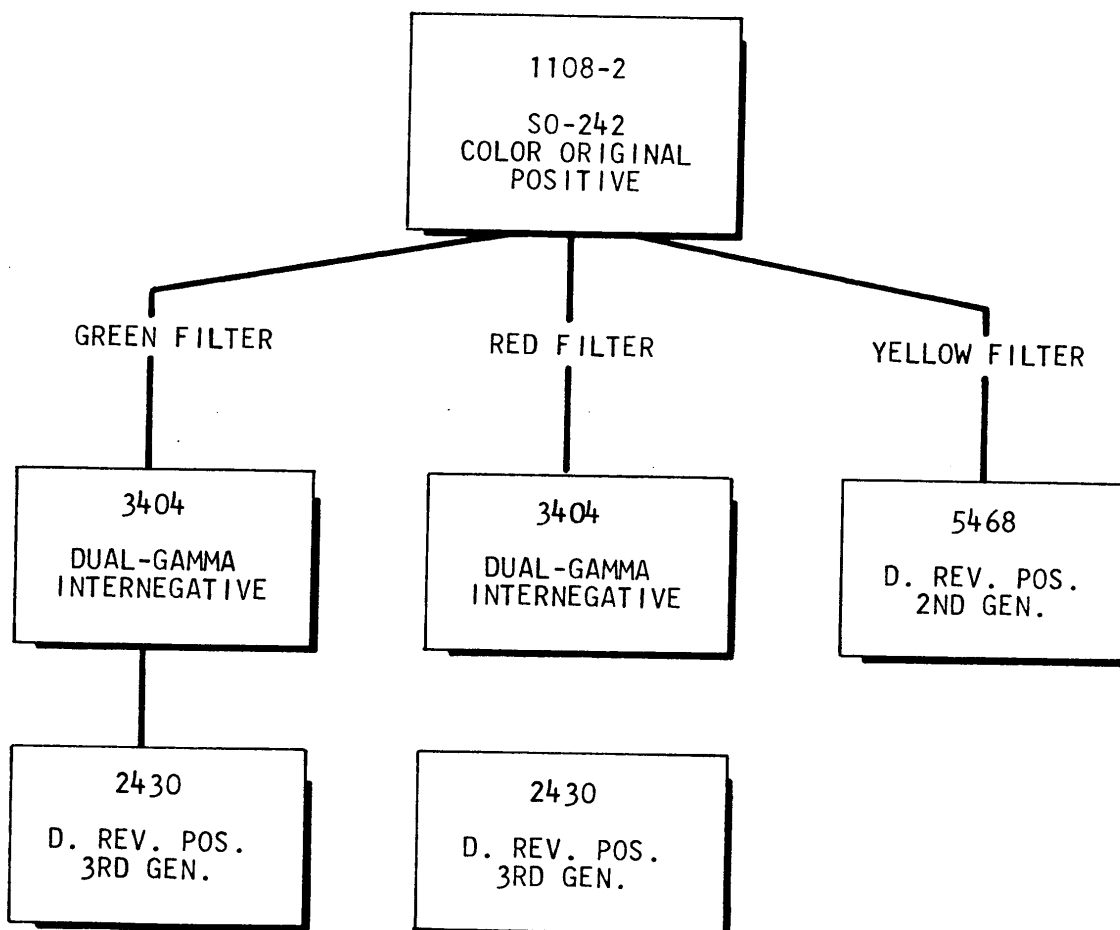
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GRAPHIC SERVICES



COLOR

IDENT

DATE

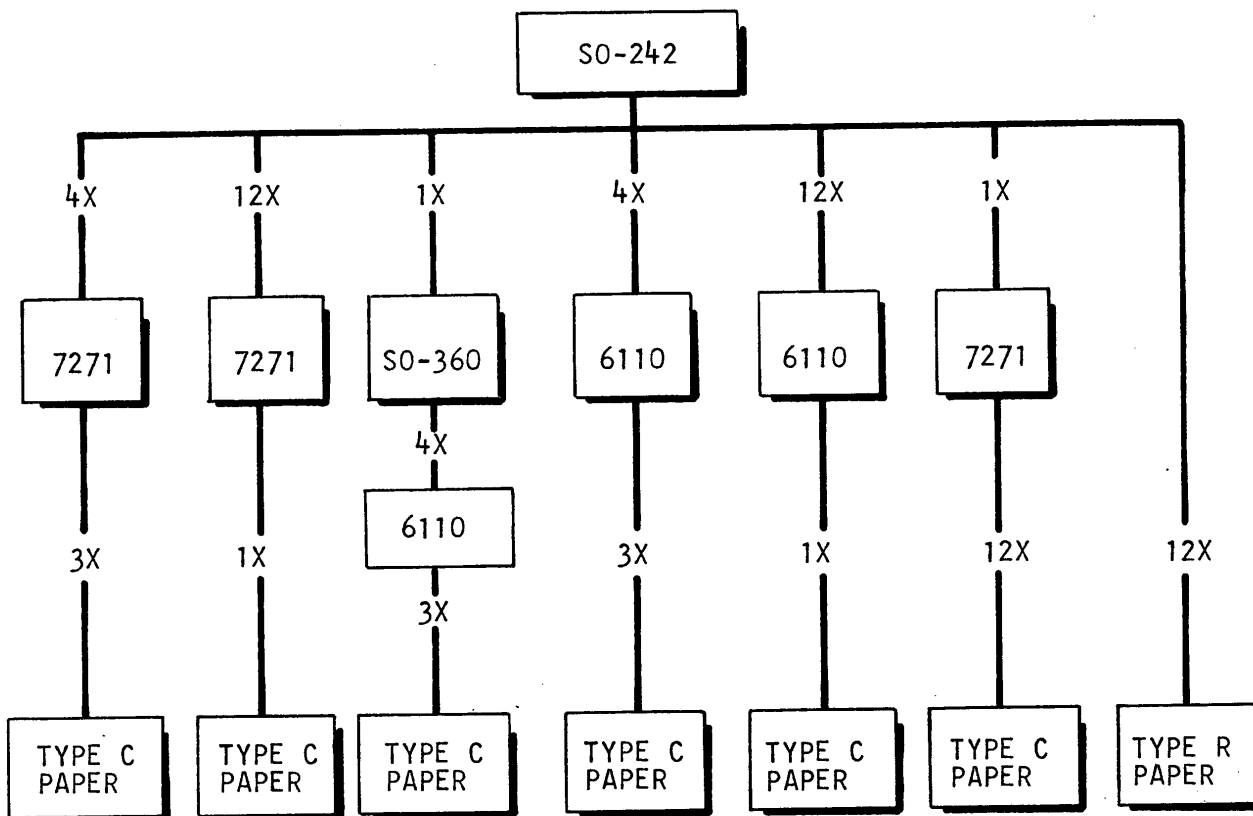
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GRAPHIC
SERVICES

Z

12X COLOR PRINT ENLARGEMENT COMPARISON



COLOR

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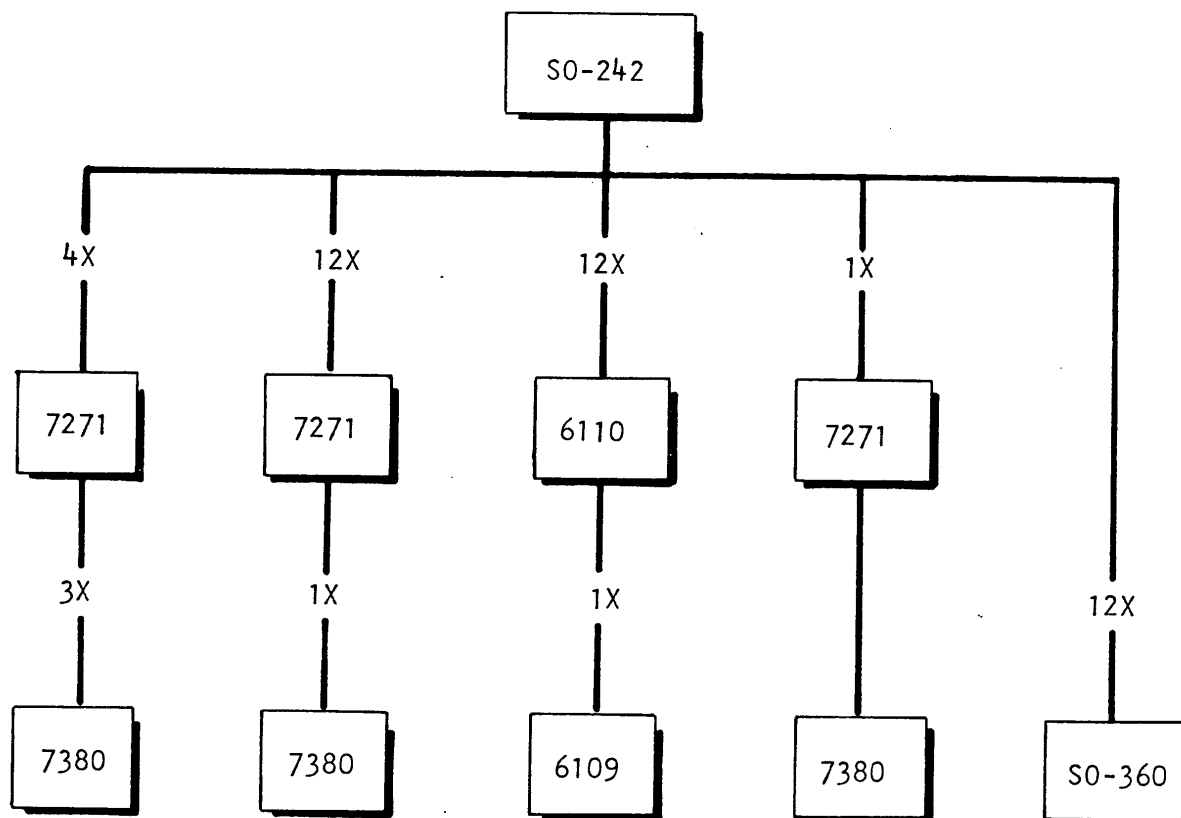
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GRAPHIC SERVICES

12X COLOR FILM ENLARGEMENT COMPARISON



CHARACTERISTICS OF COLOR AERIAL FILMS

ACQUISITION	TYPE	THICKNESS	RESOLVING 100:1	POWER 1.6:1	AERIAL EXPOSURE INDEX	COMMENTS
SO-242	REVERSAL	3.7 MILS	194	110	3.8	INCorp. FILTER 3404 HOMOLOG
SO-180	"IR" REVERSAL	3.9 MILS	71	36	10 - 18	OBSOLETE FOR ORBITAL USE

COLOR

IDENT

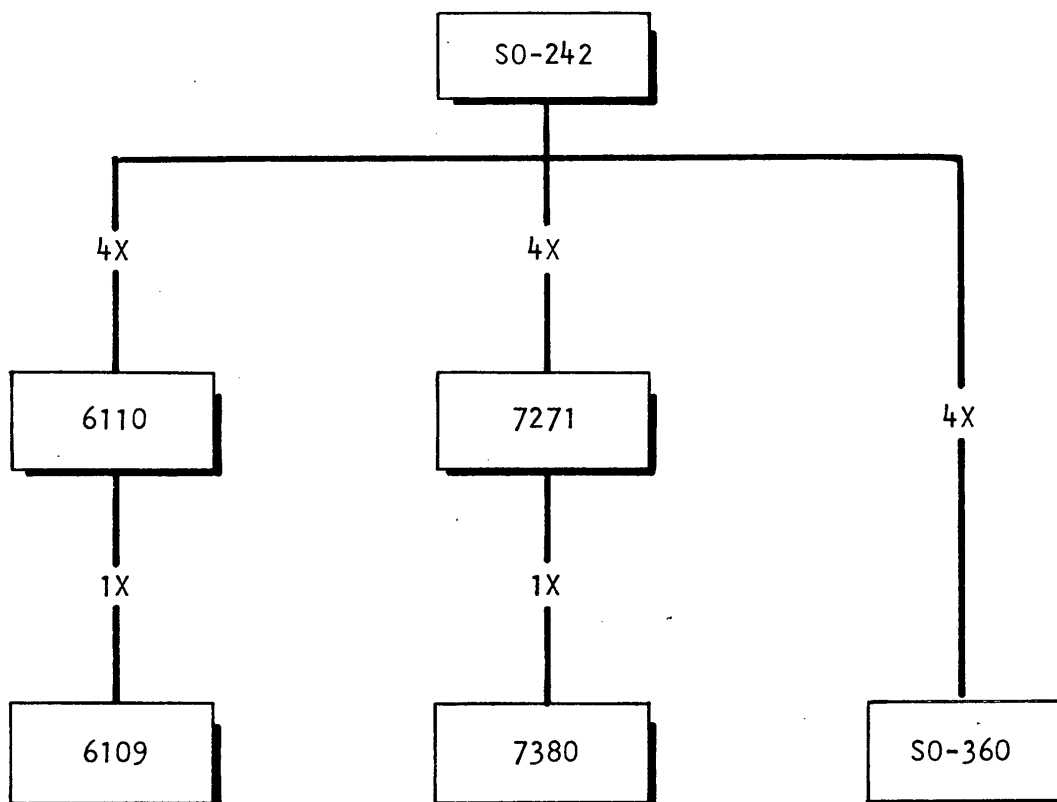
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GRAPHIC
SERVICES

4X COLOR FILM ENLARGEMENT COMPARISON



COLOR

IDENT

DATE

REV.

12-69

GRAPHIC SERVICES



DOCUMENT
CONTROLLED

WHAT DOES COLOR DO FOR US ?

CONSPICUOUS

1. COLOR CODING
2. ELECTRONIC INSTALLATIONS
3. NEW CONSTRUCTION
4. NEW FINDS

GENERAL

5. MORE CONFIDENCE in ANSWER
6. REDUCED PI FATIGUE
7. FASTER READOUT

AUDIOVISUAL DIVISION
KEUFFEL & ESSER CO.



GEMINITM
TRANSPARENCY MOUNTS
NO. 39 5100 / MADE IN U.S.A.

INTELLIGENCE

AUDIOVISUAL DIVISION
KURT & ROGER CO.

PRELIMINARY MENSURATION EXPERIMENT

SO-242 MEASURED DIMENSIONS

KNOWN DIMENSIONS

LA-17 DRONE

LENGTH

27 ft.

WIDTH

26 ft.

SA-1 MISSILE

LENGTH

40.3 ft.

DIAMETER

2.2 ft.

25X1



25X1

cy 20

UNPROVEN POTENTIAL OF COLOR

1. *IDENTIFICATION of PROCESSES at AE PLANTS*
2. *ECONOMIC INTELLIGENCE*
3. *PHOTO GEOLOGY for AE PURPOSES*
4. *CAMOUFLAGE DETECTION (IMPROVED SO-180)*
5. *WATER PENETRATION*
6. *DAMAGE to ECOLOGY DUE to RADIATION or CHEMICALS*

AUDIOVISUAL DIVISION
KEUFFEL & ESSER CO.



GEMINITM
TRANSPARENCY MOUNTS
NO. 30 5109 / MADE IN U.S.A.

SUBJECT

SERIAL NUMBER

13552

SPECIFIC RECOMMENDATIONS

1. ☐ SHOULD INCLUDE AN IN-FLIGHT MATERIAL CHANGE DETECTOR.
2. ☐ SHOULD INCLUDE AN IN-FLIGHT CHANGEABLE FILTER AND MATERIAL CHANGE DETECTOR BY FLIGHT UNIT # 7.
3. CONSIDERATION SHOULD BE GIVEN TO BUILDING AN APOCHROMAT PETZVAL FOR AT LEAST ONE D-3 or IRIS II SYSTEM.
4. NPIC SHOULD UNDERTAKE A PROGRAM TO STANDARDIZE COLOR DEFINITIONS and TERMINOLOGY.
5. NPIC/EXRAND SHOULD UNDERTAKE A PROGRAM TO DEVELOP PI COLOR KEYS.
6. PRESSURE ON E. K. SHOULD BE MAINTAINED TO PUT SO-242 ON UTB AS SOON AS POSSIBLE.
7. NPIC/EXRAND SHOULD UNDERTAKE A PROGRAM TO ESTABLISH THE REQUIREMENTS FOR STANDARDIZING PI EXPLOITATION EQUIPMENT FOR COLOR UTILIZATION.

25X1

25X1

Color Signature

TECNIFAX

MULTI-MEDIA SYSTEMS

Form No. 194

TECNIFAX FILEABLE TRANSPARENCY MOUNT

8" x 10" MASK — USE 8½" x 11" FILM

SUBJECT

SERIAL NUMBER

13735

GENERAL RECOMMENDATIONS

1. LIMITED operational COLOR TESTING on all ALL SYSTEMS should be continued.
2. COLLECTION should be AIMED AT ALL TARGET CATEGORIES until a sufficient data base has been obtained.
3. AIRCRAFT COLLECTION AGAINST (and analysis of) DOMESTIC TARGETS should be continued.
4. The life of the COLOR TASK FORCE should be extended for six months.
5. The AGENCY COLOR REQUIREMENTS WORKING GROUP should be formalized for at least six months.
6. Future PHOTO/OPTICAL SYSTEMS should be designed to allow USE of COLOR.
7. Consideration should be given in both CIA and DIA of making it a REQUIREMENT that, as much as possible, COVERT PHOTO COLLECTION be done in COLOR.

TECNIFAX

MULTICOLOR TRANSPARENCY MOUNT

Form No. 194

TECNIFAX FILEABLE TRANSPARENCY MOUNT

8" x 10" MASK — USE 8½" x 11" FILM

SUBJECT

SERIAL NUMBER

13728 1

CONCLUSIONS

1. The quality of SO-242 [REDACTED] is sufficiently high that RESOLUTION is NO LONGER a MAJOR QUESTION relative to the use of COLOR.
2. A moderate program should be undertaken to increase the color capability of both national processing centers
3. The quality of SO-242 on MISSION 1108 was NOT OPTIMUM and further study is warranted.
4. COLOR DOES PROVIDE INFORMATION that BLACK and WHITE DOES NOT, both UNIQUELY and AUXILIARY.
5. There exists a significant variance in capability to handle COLOR within the exploitation community, although all users can handle COLOR.
6. There are indications that duplication processes can be manipulated to produce HIGH RESOLUTION BLACK & WHITE duplicates from the ORIGINAL COLOR.

25X1

TECNIFAX
MILITARY, MARINE, POLICE

Form No. 194

TECNIFAX FILEABLE TRANSPARENCY MOUNT
8" x 10" MASK — USE 8½" x 11" FILM

SUBJECT

SERIAL NUMBER

BASIC CHARACTERISTICS OF MATERIALS

FILM TYPE	SO-242	SO-121	SO-380
RESOLUTION	220 c/mm	170 c/mm	615 c/mm
	135 c/mm	60 c/mm	185 c/mm
SPEED	2.8	12	3.5
RMS GRANULARITY	38	78.7	22

25X1



Form No. 267

TECNIFAX FILEABLE TRANSPARENCY MOUNT
7½" x 10" MASK — USE 8½" x 11" FILM

TASK FORCE ACTIONS

1. COORDINATED SATELLITE TESTS [REDACTED]
2. INITIATED AND COORDINATED U-2 DOMESTIC COLLECTION PROGRAM.
3. ESTABLISHED MISSION EXPLOITATION REQUIREMENTS AND PROCEDURES WITH EXSUBCOM.
4. SET REQUIREMENTS FOR TECHNICAL ANALYSIS OF MISSION PERFORMANCE
5. LAID REQUIREMENTS ON PROGRAM OFFICES FOR PROGRAM PECULIAR INFORMATION RELATIVE TO USE OF COLOR.
6. UNDERTOOK STUDIES TO ASSESS IMPACT ON COMMUNITY.

VISUAL NO. _____
SUBJECT _____

25X1

"3M BRAND" MOUNTING FRAME

Visual Products **3M**
COMPANY

CATALOG NO. 1006

NOTES

NRO COLOR TASK FORCE

CHARTER

ASSESS THE TECHNICAL PROBLEMS ASSOCIATED WITH COLLECTING,
PROCESSING, AND EXPLOITING COLOR PHOTOGRAPHY IN THE
NATIONAL RECONNAISSANCE PROGRAM.

MEMBERS



NOTES

VISUAL NO. _____
SUBJECT _____

3M BRAND MOUNTING FRAME

Visual Products Division 3M

ST. PAUL, MINNESOTA 55101 CATALOG NO. 15-1006-4 MADE IN U.S.A.

NOTES

SUBJECT

SERIAL NUMBER

TECHINGE TEMPLATE

TECHINGE TEMPLATE

STATUS REPORT ON
COLOR RECONNAISSANCE
AND THE
NRO COLOR TASK FORCE

TECHINGE TEMPLATE

TECHINGE TEMPLATE

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TECHINGE TEMPLATE



Form No. 267

TECNIFAX FILEABLE TRANSPARENCY MOUNT
7½" x 10" MASK — USE 8½" x 11" FILM

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